

FINAL COST ESTIMATES - ORANGE BRT PROJECT

S. No.	Description	Original PC-1 Amount (Rs.)	Revised PC-1 Amount (Rs.)	Comments
A	Infrastructure			
1	Total Construction Cost	1,413,247,614	1,413,247,614	The construction works are on-going. Remaining construction works can be finished within this amount.
2	Design Cost [1% of Total Construction Cost (1)]	14,132,476	18,387,032	No additional expenditure is expected under this head.
3	Geotechnical Investigation	6,000,000	3,000,000	No additional expenditure is expected under this head. The savings under this head may be re-appropriated as per the approval of the P&D department.
4	Environmental Impact Assessment	5,000,000	1,000,000	No additional expenditure is expected under this head. The savings under this head may be re-appropriated as per the approval of the P&D department.
5	Detailed Supervision [2% of Total Construction Cost(2)]	28,264,952	200,121,728	The Revised amount includes Consultant's monthly fees till June 2021 and also till end of DLP i.e June 2022.
6	Design Vetting Consultant [1% of Const Cost(1)]	14,132,476	-	This head is no more needed since the construction has not been undertaken in EPC.
7	Establishment Charges [4.8% of Total Construction Cost (1)]	28,264,952	58,515,545	The Revised amount includes monthly PMU expenditures till end of DLP i.e June 2022. This includes include operational expenditures like office rent, purchase of vehicles, equipment, furniture, utility, travel allowance, staff salaries. To be considered as REVENUE component.
8	Third Party Monitoring [1% of Total Construction Cost(1)]	14,132,476	-	This head is being deleted as per decision of Technical Committee Meeting, P&D.
9	Utility Relocation	200,000,000	266,900,643	No additional expenditure is expected under this head. PKR 260,358,291/= has been spent under this head already.
10	Platform Screen Doors (32 No.)	-	92,571,869	This is an additional item that must be installed at all four stations to ensure operational integration with Green BRT project.
11	Generator (400 kVA, 415 volt)	-	17,224,862	Reference to the SIDCL visit to BRT depot of OL and SIDCL letter NO. SIDCL/CFO/2021/8529 dated 9th February 2021 regarding the mandatory condition to install wastewater treatment plant as per directives from SEPA. Please see this letter, an email from NESPAK dated 19th February 2021 and details of this cost/rates attached in Cost Estimates section. The cost of sheds over the washing / maintenance areas can be borne from the Total Construction Cost (1) and no separate cost needs to be added for this.
12	Wastewater Treatment Plant facility	-	10,000,000	
	Sub Total	1,723,174,946	2,080,969,293	
13	Contingency (3%)	51,695,248		This head is being deleted as per decision of Technical Committee Meeting, P&D.
	Total	1,774,870,194	2,080,969,293	
14	Escalation Amount (Rs.)	89,367,000	89,367,000	The claims have been processed considering the current Extension of Time (EOT) approved by the Consultant. Further claims (if any) may be covered under the head of Total Construction Cost (Head#1).

EXECUTIVE ENGINEER
Sindh Mass Transit Authority (SMTA)
Transport & Mass Transit Department,
Government of Sindh

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S. No.	Description	Original PC-1 Amount (Rs.)	Revised PC-1 Amount (Rs.)	Comments
15	Total Cost of Infrastructure, Design, Supervision and Relocation	1,864,237,194	2,170,336,293	Additional amount of PKR 295,194,577 includes regularization of the expenditures paid in addition to the approved amount under respective heads as well as the cost of PSD (head # 10). Part of this amount may be reappropriated within the heads of approved PC-1 as per the approval of the P&D Department.
B Buses & ITS Equipment (Capex Cost) provided by the SIDCL				
S.No	Description	Amount in FEC (USD)	36% Taxes for Buses & 30% for ITS in PKR	Comments
1	12 m Diesel Hybrid Buses (20 Nos.)	\$3,110,600	179,170,560	Cost of 1 bus = USD 155,530/ as per the financial bid opened by SIDCL (Letter SIDCL(GLBRTS)/COO/2020/8010 dated 3rd November 2020)
2	Full spare parts package for BRTS vehicles from the delivery of the vehicle through the duration of the contract (B1a)	\$365,300		Reference to a letter from SIDCL after the Technical Committee was held vide SIDCL (GLBRTS)/COO/2020/8395 dated 11th January 2021 wherein SIDCL clarified that these are ancillary heads to be considered part and parcel of bus procurement and whose costing was missed in the cost summary sheet earlier. These are the items associated with the procurement of buses. And to be paid in US dollar. Please note that the cost of the buses i.e. USD 3,110,600 is counted only once in the total sum. Although the same is mentioned twice in this summary.
3	Supply of tools and diagnostic equipment for BRTs vehicles (B1b)	\$12,200		
4	IITS (Hardware + Software + Taxes @ 30%)	\$2,377,977	60,636,306	Procurement for IITS hardware and software including taxes to be undertaken under this head.
Total		\$5,866,077	239,806,866	TOTAL USD 5,866,077/- is to be paid as Foreign Exchange Component in USD
Total (B) in PKR		1,178,379,186		
(OPEX COST)		PKR	Amount in PKR (3 years)	
5a	Bus Ops O&M	187,234,740	561,704,220	BRT operations are covered under this head. Fare revenue is calculated at an average Fare of PKR 22 per passenger. Non - Fare revenue is taken at 3% of the Fare Revenue because of fewer stations on the Orange BRT corridor. Ridership of Orange BRT: 24,225 passengers / day (analyzed by Consultants)
5b	Total Revenue (Fare + Non-Fare)	172,915,628	518,746,884	
5c	Operations Deficit (5a-5b)	14,319,112	42,957,336	
6	ITS Operations	11,230,000	33,700,000	ITS operations are covered under this head. Details provided in the cost estimates.
7	ITS Maintenance (2 yrs warranty + 1 year S&M)		44,000,000	Maintenance of ITS equipment is covered under this head.
8	Station Management	43,200,000	129,600,000	Expenditures related to security, cleaning and minor maintenance
9	Operation Unit	20,000,000	60,000,000	Exclusive unit under SIDCL to look after BRT operations and maintenance
		USD	PKR	

CUTIVE ENGINEER
Mass Transit Authority (SMTA)
1st Mass Transit Department
Government of Sindh

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S. No.	Description	Original PC-1 Amount (Rs.)	Revised PC-1 Amount (Rs.)	Comments
10	Maintenance supervision of vehicles	\$254,600	40,736,000	Reference to a letter from SIDCL after the Technical Committee was held vide SIDCL (GLBRTS)/COO/2020/8395 dated 11th January 2021 wherein SIDCL clarified that these are ancillary heads to be considered part and parcel of bus procurement and whose costing was missed in the cost summary sheet earlier. These are the items associated with the procurement of buses. Please note that the cost of the buses i.e. USD 3,110,600 is counted only once in the total sum. Although the same is mentioned twice in this summary.
11	Maintenance training program	\$2,800	448,000	
12	Driver training program	\$2,300	368,000	
13	Completion of full vehicle homologation, registration and licensing for BRTS vehicles	\$103,200	16,512,000	
Total Subsidy Req. (B) (3c+4+5+6+7+8+9+10+11)			368,321,336	PKR 368,321,336/- is to be paid as Pak Rupee Component
Total (A+B)		1,546,700,522		
14	Add 2% Consultancy Charges (Design, Transaction, Legal and Operations Advisory)	30,934,010		Consultancy services required for designing integration and operationalization of the ASE BRT. Details provided in the cost estimates.
15	Add 2% Contingencies (Unforeseen/Hedging/Price Variation / Ancillary)	30,934,010		Unexpected price changes due to foreign exchange component and inflation.
16	Add 2% Insurance of Government Asset (0.67% per year)	30,934,010		Insurance cost necessary to secure the government assets considering any unfavorable circumstances.
17	Add 2% Establishment Charges of SIDCL	30,934,010		Administrative expenditures of the SIDCL establishment are covered under this head.
	Improvement in Infrastructure (Physical Integration & Infrastructure Maintenance)	450,000,000		Cost of physical integration of ASE and Green BRT and annual maintenance of the ASE BRT dedicated corridor for 3 years rationalized after Technical Committee Meeting.
TOTAL (to be given to SIDCL)		2,120,436,564		To be considered as CAPITAL component.
TOTAL Revised PC-1 Cost		4,290,772,857		REVENUE

Total Foreign Exchange Component (USD)	\$5,866,077	Total USD 5,8566,077/- is to be paid as Foreign Exchange Component in USD to SIDCL
Total Local Component in PKR in Revised PC1		
Infrastructure	2,170,336,293	Undertaken by SMTA, TMTD.
Bus Ops & JTS	1,181,864,244	To be given to the SIDCL
Total Local Component in PKR	3,352,200,537	

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	TOTAL (in PKR)	4,290,772,857		1 USD = PKR 160

INFRASTRUCTURE			
	Revenue Component	168,312,276	Refer to establishment costs of SMTA in Infrastructure Component (7), PSD (10) and Generator (11)
	Capital Component	2,002,024,017	Total Infrastructure Cost minus Establishment Cost (15)-(7)-(10)-(11)
BUS OPS & ITS			
	Revenue Component	2,120,436,564	The total amount to be paid to SIDCL is being taken as <i>Revenue</i>
	Total Revenue Component	2,288,748,840	
	Total Capital Component	2,002,024,017	